

**WHAT IS CLAIMED IS:**

1. A magnetic disk medium comprising a support and a magnetic layer containing a binder and a hexagonal ferrite powder dispersed in the binder,

5 wherein the support has a thickness of 20  $\mu\text{m}$  to 80  $\mu\text{m}$ , and the magnetic disk medium has an inside diameter X of 2 mm to 10 mm, an outside diameter Y of 20 mm to 50 mm, an X/Y ratio satisfying the relation  $0.05 \leq X/Y \leq 0.20$  and a curl quantity of 1 mm or below.

10 2. The magnetic disk medium according to claim 1, wherein signals are capable of being recorded or reproduced thereon when the magnetic disk media is rotated at a rotational speed of 2,000 rpm to 8,000 rpm.

15 3. The magnetic disk medium according to claim 1, wherein signals recorded on the magnetic disk medium are capable of being reproduced with a magnetic reluctance head.

20 4. The magnetic disk medium according to claim 2, wherein signals recorded on the magnetic disk medium are capable of being reproduced with a magnetic reluctance head.

25 5. The magnetic disk medium according to claim 1, wherein the thickness of the support is 30  $\mu\text{m}$  to 70  $\mu\text{m}$ .

6. The magnetic disk medium according to claim 1, which has an X/Y ratio satisfying the relation  $0.08 \leq X/Y \leq 0.15$ .

5 7. The magnetic disk medium according to claim 1, which has a curl quantity of 0.5 mm or below.

8. The magnetic disk medium according to claim 1, wherein the hexagonal ferrite powder has a particle size of 10 nm to  
10 35 nm.

9. The magnetic disk medium according to claim 1, which has a dimensional change rate of 0.05 % or below when the medium is stored at 60°C.

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10. The magnetic disk medium according to claim 1, which further comprises a subbing layer so that the support, the subbing layer, and the magnetic layer is in this order.

20 11. The magnetic disk medium according to claim 10, wherein the subbing layer has a thickness of 0.01  $\mu\text{m}$  to 2.0  $\mu\text{m}$ .

12. The magnetic disk medium according to claim 1, which  
25 further comprises an underlayer so that the magnetic layer,

the underlayer, and the support is in this order.

13. The magnetic disk medium according to claim 12,  
wherein the underlayer contains a non-magnetic inorganic powder  
5 and a binder.

14. The magnetic disk medium according to claim 12,  
wherein the underlayer contains a carbon black.

10 15. The magnetic disk medium according to claim 12, which  
further comprises a subbing layer so that the support, the  
subbing layer, and the underlayer is in this order.

16. The magnetic disk medium according to claim 15,  
15 wherein the subbing layer has a thickness of 0.01  $\mu\text{m}$  to 2.0  
 $\mu\text{m}$ .